

InvenioIP - Technology Details

Institution: University of Maryland, Baltimore

Docket: HR-2005-077

Title: Anti-RGC-32 Antibody as a Marker for Colon Carcinoma

Summary: A novel antibody was produced in the investigation of the deregulation of cell cycle and overexpression of cyclins and cyclin-dependent kinases in tumor cells. Anti-RGC-32 binds to proliferating tumor cells, including tumors of colon, stomach, esophagus, prostate, lung, and brain tumors. We have identified and named RGC-32 a previously unknown protein, and cloned the gene encoding RGC-32.

Applications: There are several potential clinical applications that include the detection, imaging and possible treatment of specific types of cancer.

Advantages: Currently to our knowledge there is no commercially available antibody against RGC-32.

State of Development: Immunostaining shows RGC-32 overexpression in a range of tumor tissues.

R and D Required: N/A

Licensing Potential: UM seeks to develop and commercialize via an exclusive or non-exclusive license agreement and/or sponsored research with a company active in the area.

Patent Status: Pending U.S. Non-Provisional Patent Application

Related Publications:

- Fosbrink M, Cudrici C, Tegla CA, Soloviova K, Ito T, Vlaicu S, Rus V, Niculescu F, Rus H. [Response gene to complement 32 is required for C5b-9 induced cell cycle activation in endothelial cells.](#) Exp Mol Pathol. 2009 Jan 7.
- Huang WY, Li ZG, Rus H, Wang X, Jose PA, Chen SY. [Response gene to complement 32 mediates transforming growth factor beta -induced epithelial-mesenchymal transition in human renal proximal tubular cells.](#) J Biol Chem. 2009 Jan 21.
- Vlaicu SI, Cudrici C, Ito T, Fosbrink M, Tegla CA, Rus V, Mircea PA, Rus H. [Role of response gene to complement 32 in diseases.](#) Arch Immunol Ther Exp (Warsz). 2008 Mar-Apr;56(2):115-22.
- Fosbrink M, Cudrici C, Niculescu F, Badea TC, David S, Shamsuddin A, Shin ML, Rus H. [Overexpression of RGC-32 in colon cancer and other tumors.](#) Exp Mol Pathol. 2005 Apr;78(2):116-22.

Files:

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